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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	Larran	
10/062,141	01/31/2002	Richard W. Sexton	ATTORNEY DOCKET NO.	CONFIRMATION NO
	**************************************		SDP271PA	2522
Law Office of Barbara Joan Haushalter		EXAMINER		
228 Bent Pines	Barbara Joan Haushalte Court	r	CHEA, THORL	
Bellefontaine, OH 43311			ART UNIT	PAPER NUMBER
			1752	TALER NOMBER
			DATE MAILED: 02/03/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Summary	10/062,141	SEXTON, RICHARD W.
Time Action Summary	Examiner	Art Unit
The MAN ONE	Thorl Chea	1 ~ V
The MAILING DATE of this communication appeared for Reply	opears on the cover sheet with the	1752
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a replection of the period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statute armed patent term adjustment. See 37 CFR 1.704(b). Status	LY IS SET TO EXPIRE 3 MONTI 	H(S) FROM timely filed ays will be considered timely
Status Status	is a second unitary me	ed, may reduce any
1) Responsive to communication(s) filed on 31 Ja	anuary 2002	
This action is FINAL . 2b) This	action is non-final	
Since this application is in condition for allowar closed in accordance with the practice under E Disposition of Claims		osecution as to the merits is 53 O.G. 213.
 4) Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) 1-10,19 and 20 is/are 5) Claim(s) is/are allowed. 6) Claim(s) 11-18 is/are rejected. 7) Claim(s) is/are objected to 	withdrawn from consideration.	
8) Claim(s) <u>1-20</u> are subject to restriction and/or el	lection requirement.	
Application Papers		
9) The specification is objected to by the Examiner.		
is/are: a) accer	atod on hill at a second	
Replacement drawing sheet(s) including the correction	n is required if the decree ()	37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Exar Priority under 35 U.S.C. §§ 119 and 120	miner Note the attack at organization	cted to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. §§ 119 and 120	Trote the attached Office A	Action or form PTO-152.
12) Acknowledgment is made of a claim for foreign p a) All b) Some * c) None of: 1. Certified copies of the priority documents h 2. Certified copies of the priority documents h 3. Copies of the certified copies of the priority application from the International Bureau (F * See the attached detailed Office action for a list of t 13) Acknowledgment is made of a claim for domestic priorice a specific reference was included in the first set 37 CFR 1.78. a) The translation of the foreign language provisional Acknowledgment is made of a claim for domestic priorice was included in the first sentence of the specific reference was included in	riority under 35 U.S.C. § 119(a)- lave been received. lave been received in Application documents have been received PCT Rule 17.2(a)). The certified copies not received. Friority under 35 U.S.C. § 119(e) (entence of the specification or in	(d) or (f). No in this National Stage (to a provisional application) an Application Data Sheet.
Notice of References Cited (PTO 200)		
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	4) Interview Summary (PTC 5) Notice of Informal Paten 6) Other:	O-413) Paper No(s) t Application (PTO-152)
tent and Trademark Office -326 (Rev. 11-03)		

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-10, drawn to a method, classified in class 430, subclass 320.
 - II. Claims 11-18, drawn to an article, classified in class 428, subclass 41.8.
 - III. Claims 19-20, drawn to an article, classified in class 347, subclass 47.

The inventions are distinct, each from the other because of the following reasons:

- 2. Inventions Group I and Group II are related as mutually exclusive species in an intermediate-final product relationship. Distinctness is proven for claims in this relationship if the intermediate product is useful to make other than the final product (MPEP § 806.04(b), 3rd paragraph), and the species are patentably distinct (MPEP § 806.04(h)). In the instant case, the intermediate product is deemed to be useful as in the production of an semiconductor device and the inventions are deemed patentably distinct since there is nothing on this record to show them to be obvious variants. Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions anticipated by the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.
- 3. Inventions of Group I and Group III are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the

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instant case the different inventions; the invention of Group III can be mad by the process other than that of group I.

- 4. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.
- 5. During a telephone conversation with Babara Joan Haushalter on January 6, 2004 a provisional election was made without traverse to prosecute the invention of invention Group II, claims 11-18. Affirmation of this election must be made by applicant in replying to this Office action. Claims 1-10, 19-20 withdrawn from further consideration by the examiner, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Claim Rejections - 35 USC § 112

- 6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention
- 7. Claims 11-18 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The structural relationship between the mandrel substrate base, the controlled-release layer and the conductive layer. Note to the language in claim 9, lines 3-11 "(t)he mandrel and the controlled-release layer provide sufficient adhesion to the substrate base to prevent the electroformed structure from delaminating from the substrate during the electroforming processes and still provide mean to remove the electroformed structure from the substrate base without damage to either the electroformed structure or the substrate". It is unclear as to whether

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the mandrel is a composite of the substrate base, controlled-release layer and a conductive layer or a part that associated to the composite.

Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim Rejections - 35 USC § 103

- 9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 10. Claims 11-18 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Hulderman et al (Hulderman).

See Figs in Sheet 7-9, Figs 12A to 12H; Figs. 13A to 13D; Figs 14A to 14G which contains photoresist layer and the metal layer (Fig 13D; 14F) wherein the photoresist layer was removed after the formation of metal layer. The anticipation of the claimed invention is based on the mandrel having a substrate, a controlled-release layer and a conductive metal layer within the meaning taught in Hulderman; the limitation provided in the claims "(t)he mandrel and the controlled-release layer provide sufficient adhesion to the substrate base to prevent the electroformed structure from delaminating from the substrate during the electroforming processes and still provide mean to remove the electroformed structure from the substrate base

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without damage to either the electroformed structure or the substrate" fails to further structural

limitation of the confusing language set forth in the paragraph above, and is considered as an

inherent characteristic associated with the substrate, the photoresist layer and the conductive

layer. Alternatively, it would have been obvious to use the process taught in Hulderman using

the substrate, photoresist layer and the electroform process to provide a diverse structure.

Conclusion

11. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Thorl Chea whose telephone number is (571)272-1328. The

examiner can normally be reached on M-F (9:00 - 5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Mark F. Huff can be reached on (571)272-1385. The fax phone number for the

organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the receptionist whose telephone number is (703)308-0661.

Tch &W January 21, 2004

Thorl Chea

Primary Examiner

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